



Please type a plus sign (+) inside this box →

+

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

1

**Complete if Known**

Application Number	10/809,772
Filing Date	March 25, 2004
First Named Inventor	Ko et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	PH-7054 DIV2

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
KH		2684965		Weston et al.	07/27/1954	
		3133061		Kirchner et al.	05/12/1964	
		4943578		Naylor et al.	07/24/1990	
		5116842		Naylor et al.	05/26/1992	
		5512567		Terada et al.	04/30/1996	
		5646151		Kruse et al.	07/08/1997	
		5688955		Kruse et al.	11/18/1997	
		5744458		Kruse et al.	04/28/1998	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
KH			93/20099		WIPO	10/14/1993		
			95/19344		WIPO	07/20/1995		
			97/17954		WIPO	05/22/1997		
			97/22597		WIPO	06/26/1997		
			97/24324		WIPO	07/10/1997		
			97/48681		WIPO	12/24/1997		
			98/25604		WIPO	06/18/1998		
			98/25617		WIPO	06/18/1998		
			98/27815		WIPO	07/02/1998		
			98/31364		WIPO	07/23/1998		
			99/09984		WIPO	03/04/1999		
			99/04794		WIPO	02/04/1999		
			0747357		EUROPE	06/05/1996		
			2013179		GERMAN	10/01/1970		
			3163067		JAPAN	07/01/1991		
			3163068		JAPAN	07/01/1991		

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
KH		KHANDELWAL et al, Agents Acting on CNS, Indian J. Chem. 16B, pp. 1012-1014.	
KH		BIRCH et al, Preparation and Evaluation of Some Hydrophilic Phenylacetil-Piperazines as Peripherally Selective k-Opioid Receptor Agonists, Bioorganic & Medicinal Chemistry Letters, 1992, pp. 1275-1278, Volume 2, No. 10.	
KH		NAYLOR et al., A Potent New Class of k-Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-[(Dialkylamino)Methyl]Piperazines, J. Med. Chem., 1993, pp. 2075-2083, Volume 36.	
KH		HESELGESSER et al, Identification and Characterization of Small Molecule Functional Antagonists of the CCR1 Chemokine Receptor, The Journal of Biological Chemistry, 1998, pp. 15687-15692, Volume 273, No. 25.	

Examiner  
SignatureDate  
Considered

10/24/2005

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. Burden of Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

### Complete if Known

Application Number	10/809,772
Filing Date	March 25, 2004
First Named Inventor	Ko et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	PH-7054 DIV2

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		2684965		Weston et al.	07/27/1954	
		3133061		Kirchner et al.	05/12/1964	
		4943578		Naylor et al.	07/24/1990	
		5116842		Naylor et al.	05/26/1992	
		5512567		Terada et al.	04/30/1996	
		5646151		Kruse et al.	07/08/1997	
		5688955		Kruse et al.	11/18/1997	
		5744458		Kruse et al.	04/28/1998	

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>3</sub>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
			93/20099		WIPO	10/14/1993		
			95/19344		WIPO	07/20/1995		
			97/17954		WIPO	05/22/1997		
			97/22597		WIPO	06/26/1997		
			97/24324		WIPO	07/10/1997		
			97/48681		WIPO	12/24/1997		
			98/25604		WIPO	06/18/1998		
			98/25617		WIPO	06/18/1998		
			98/27815		WIPO	07/02/1998		
			98/31364		WIPO	07/23/1998		
			99/09984		WIPO	03/04/1999		
			99/04794		WIPO	02/04/1999		
			0747357		EUROPE	06/05/1996		
			2013179		GERMAN	10/01/1970		
			3163067		JAPAN	07/01/1991		
			3163068		JAPAN	07/01/1991		

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KHANDELWAL et al, Agents Acting on CNS, Indian J. Chem. 16B, pp. 1012-1014.	
		BIRCH et al, Preparation and Evaluation of Some Hydrophilic Phenylacetyl-Piperazines as Peripherally Selective k-Opioid Receptor Agonists, Bioorganic & Medicinal Chemistry Letters, 1992, pp. 1275-1278, Volume 2, No. 10.	
		NAYLOR et al, A Potent New Class of k-Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-((Diakylamino)methyl)Piperazines, J. Med. Chem., 1993, pp. 2075-2083, Volume 36.	
		HESSELGESSER et al, Identification and Characterization of Small Molecule Functional Antagonists of the CCR1 Chemokine Receptor, The Journal of Biological Chemistry, 1998, pp. 15687-15692, Volume 273, No. 25.	

Examiner Signature

Date Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. Burden of Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.